

CLAIMS

1. An ultraviolet-curing composition for assembling a hard disk drive, which is used in assembling parts of the hard disk drive, said ultraviolet-curing composition comprising a curable component,

wherein said curable component of said ultraviolet-curing composition is a urethane (meth)acrylate obtained by an addition reaction, using an organic zinc or an amine compound as a catalyst, between:

an isocyanate group of an isocyanate oligomer, which is prepared by using an organic zinc or an amine compound as a catalyst in an addition reaction between an isocyanate group and an active hydrogen; and

a hydroxy group of a hydroxyalkyl (meth)acrylate.

2. The ultraviolet-curing composition for assembling a hard disk drive according to claim 1,

wherein said urethane (meth)acrylate is a product of an addition reaction, using an organic zinc or an amine compound as a catalyst, between:

an isocyanate group of an isocyanate oligomer, which is prepared, by using an organic zinc or an amine compound, from a polyether having a hydroxy group at a terminal thereof and an isocyanate compound having two or more isocyanate groups per molecule; and

a hydroxy group of a hydroxyalkyl (meth)acrylate,

wherein no tin compound is used as a catalyst in these two addition reactions.

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3. The ultraviolet-curing composition for assembling a hard disk drive according to claim 1,

wherein the polyurethane (meth)acrylate, which is a main component of said ultraviolet-curing composition, is a product of an addition reaction, using an organic zinc or an amine compound as a catalyst, between:

an isocyanate group of an isocyanate oligomer, which is prepared, by using an organic zinc or an amine compound, from a polyester having a hydroxy group at a terminal or in a side chain thereof and an isocyanate compound having two or more isocyanate groups per molecule; and

a hydroxy group of a hydroxyalkyl (meth)acrylate, wherein no tin compound is used as a catalyst in these two addition reactions.

4. The ultraviolet-curing composition for assembling a hard disk drive according to claim 1,

wherein the polyurethane (meth)acrylate, which is a main component of said ultraviolet-curing composition, is a product of an addition reaction, using an organic zinc or an amine compound as a catalyst, between:

an isocyanate group of a polyether/polyester copolymerized isocyanate oligomer compound, which is prepared by an addition reaction among a polyester having a hydroxy group at a terminal or in a side chain thereof, a polyether having a hydroxy group at a terminal thereof, and a diisocyanate compound having two or more isocyanate groups per molecule; and

a hydroxy group of a hydroxyalkyl (meth)acrylate,

wherein no tin compound is used as a catalyst in  
these two addition reactions.

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